

## ABSTRACT OF THE DISCLOSURE

Cavities are formed so as to extend from a rear surface side of a base material to a protective film, an electrically-insulating film is formed on a rear surface of the base material, wall surfaces of the cavities, and exposed surfaces of the protective film, and a heating resistor portion and a fluid temperature resistance thermometer portion are formed on portions of the electrically-insulating film on the exposed surfaces of the protective film inside the cavities. In addition, leader patterns are formed on the electrically-insulating film so as to extend from end portions of the heating resistor portion and the fluid temperature resistance thermometer portion along the wall surfaces of the cavities onto the rear surface of the base material.